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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1-28. (Cancelled)
- 1 29. (Currently Amended) The method of claim [[28]] 42, wherein computing the costs based
- 2 on the probabilities of over-predicting the parts comprises computing the costs associated with
- 3 unnecessarily sending the corresponding parts to the onsite repair.
- 1 30. (Currently Amended) The method of claim [[28]] 42, wherein computing the costs based
- 2 on the probabilities of under-predicting the parts comprises computing the costs associated with
- 3 not sending the corresponding parts when needed to the onsite repair.

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- 1 31. (Cancelled)
- 1 32. (Previously Presented) A method executed by a computer, comprising:
- determining costs of mis-predicting parts that may be replaced during an onsite repair of
- 3 a product in response to a repair history;
- selecting a subset of the parts to be sent to the onsite repair in response to the costs; and
- 5 identifying a set of symptoms associated with the product,
- 6 wherein determining the costs comprises determining a cost of mis-predicting a subgroup
- 7 of the parts according to parameters indicating at least:
- 8. (1) a number of trips that the set of symptoms were reported, the subgroup of
- 9 parts were sent, and at least one part not in the subgroup of parts was needed to complete the
- 10 onsite repair; and
- 11 (2) a number of trips that the set of symptoms were reported, the subgroup of
- 12 parts were sent, and the subgroup of parts included at least one part that was unnecessary in the
- 13 onsite repair.
- 1 33. (Currently Amended) The method of claim [[28]] 42, wherein computing the costs based
- on the probabilities of over-predicting and under-predicting is according to:

- 3 numbers of times that the corresponding parts were under-predicted;
- 4 numbers of times that the corresponding parts were over-predicted;
- 5 numbers of times that the corresponding parts were correctly predicted.
- 1 34. (Previously Presented) The method of claim 33, further comprising:
- 2 computing the probabilities of under-predicting the parts using the numbers of times that
- 3 the parts were under-predicted; and
- 4 computing the probabilities of over-predicting the parts using the numbers of times the
- 5 parts were over-predicted.
- 1 35. (Cancelled)
- 1 36. (Currently Amended) The method of claim [[28]] 42, wherein determining the costs
- 2 includes determining an average of the costs associated with under-predicting and over-
- 3 predicting the parts.
- 1 37. (Currently Amended) The method of claim [[28]] 42, wherein selecting the subset of the
- 2 parts includes selecting the subset of the parts for transport to the onsite repair.
- 1 38. (Currently Amended) The method of claim 28, A method executed by a computer,
- 2 comprising:
- 3 determining costs of mis-predicting parts that may be replaced during an onsite repair of
- 4 a product in response to a repair history, wherein the costs are computed based on probabilities
- 5 of over-predicting and under-predicting the parts;
- 6 selecting a subset of the parts to be sent to the onsite repair in response to the costs; and
- 7 wherein selecting the subset of the parts includes selecting the selecting another subset of
- 8 the parts for training of call qualifiers in response to the costs.
- 1 39. (Currently Amended) The method of claim [[28]] 42, wherein selecting the subset of the
- 2 parts includes selecting the subset of the parts for flagging to call qualifiers.

- 1 40. (Currently Amended) The method of claim [[28]] 42, wherein selecting the subset of the
- 2 parts includes selecting the subset of the parts for stocking a repair vehicle.
- 1 41. (Currently Amended) The method of claim [[28]] 42, further comprising determining
- which products are least desirable to support in response to the costs.
- 1 42. (Currently Amended) The method of claim 28, further comprising A method executed by
- 2 a computer, comprising:
- 3 determining costs of mis-predicting parts that may be replaced during an onsite repair of
- 4 a product in response to a repair history, wherein the costs are computed based on probabilities
- 5 of over-predicting and under-predicting the parts:
- 6 selecting a subset of the parts to be sent to the onsite repair in response to the costs; and
- determining which personnel to target for additional training in response to the costs.
- 1 43. (Cancelled).
- 1 44. (Currently Amended) The apparatus of claim 43, An apparatus having a computing
- 2 device that determines costs of mis-predicting parts that may be replaced during an onsite repair
- 3 of a product in response to a repair history and that selects a subset of the parts to be sent to the
- 4 onsite repair in response to the costs,
- 5 wherein the costs are computed based on probabilities of over-predicting and under-
- 6 predicting the parts,
- wherein the computing device computes the costs based on the probabilities by
- 8 determining numbers of times that the corresponding parts were under-predicted and numbers of
- 9 times that the parts were over-predicted and numbers of times that the corresponding parts were
- 10 correctly predicted, the repair history containing the numbers of times that the corresponding
- parts were under-predicted, the numbers of times that the parts were over-predicted, and the
- 12 numbers of times that the corresponding parts were correctly predicted.

- 1 45. (Previously Presented) An apparatus having a computing device that determines costs of
- 2 mis-predicting parts that may be replaced during an onsite repair of a product in response to a
- 3 repair history and that selects a subset of the parts to be sent to the onsite repair in response to the
- 4 costs,
- 5 wherein the costs comprise a cost of mis-predicting a subgroup of the parts according to
- 6 parameters indicating at least:
- 7 (1) a number of trips that a set of symptoms were reported, the subgroup of parts
- 8 were sent, and at least one part not in the subgroup of parts was needed to complete the onsite
- 9 repair; and
- 10 (2) a number of trips that the set of symptoms were reported, the subgroup of
- parts were sent, and the subgroup of parts included at least one part that was unnecessary in the
- 12 onsite repair.
- 1 46. (Currently Amended) The apparatus of claim [[43]] 44, wherein the repair history
- 2 includes an identification of a set of parts sent to a set of prior onsite repairs and a list of actual
- 3 parts needed in the prior onsite repairs.
- 1 47. (Cancelled)
- 1 48. (Currently Amended) The apparatus of claim [[43]] 44, wherein the costs determined by
- 2 the computing device comprise waste metrics for a plurality of sets of parts and the subset of
- 3 parts selected comprises less than all the sets of parts for the onsite repair in response to the
- 4 waste metrics.
- 1 49. (Currently Amended) The apparatus of claim [[43]] 44, wherein the parts are selected for
- 2 transport to the onsite repair.
- 1 50. (Currently Amended) The apparatus of claim [[43]] 44, wherein the parts are selected for
- 2 training of call qualifiers.

- 1 51. (Currently Amended) The apparatus of claim [[43]] 44, wherein the parts are selected for
- 2 flagging to call qualifiers.
- 1 52. (Currently Amended) The apparatus of claim [[43]] 44, wherein the parts are selected for
- 2 stocking a repair vehicle.
- 1 53. (Currently Amended) The apparatus of claim [[43]] 44, wherein the computing device
- 2 determines which products are least desirable to support in response to the costs.
- 1 54. (Currently Amended) The apparatus of claim [[43]] 44, wherein the computing device
- 2 determines which personnel to target for additional training in response to the costs.
- 1 55. (Currently Amended) The method of claim [[28]] 42, wherein determining the costs of
- 2 mis-predicting the parts is for a particular onsite repair of a particular product, and wherein
- 3 selecting the subset of the parts is for the particular onsite repair of the particular product.
- 1 56. (Currently Amended) The method of claim [[28]] 42, wherein determining the costs of
- 2 mis-predicting parts comprises determining the costs of mis-predicting corresponding sets of
- 3 parts.
- 1 57. (Previously Presented) The method of claim 56, wherein selecting the subset of parts
- 2 comprises selecting less than all of the sets of parts.

- 1 58. (Currently Amended) The method of claim 28, A method executed by a computer,
- 2 comprising:

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- determining costs of mis-predicting parts that may be replaced during an onsite repair of
- 4 a product in response to a repair history, wherein the costs are computed based on probabilities
- 5 of over-predicting and under-predicting the parts; and
- 6 selecting a subset of the parts to be sent to the onsite repair in response to the costs.
- 7 wherein determining the costs of mis-predicting comprises determining expected wastes
- 8 for the corresponding parts, wherein each expected waste is computed based on a number of
- 9 times the corresponding part was under-predicted, a number of times the corresponding part was
- 10 over-predicted, a number of times the corresponding part was correctly predicted, a cost of over-
- predicting the corresponding part, and a cost of under-predicting the corresponding part, wherein
- 12 the repair history contains the number of times the corresponding part was under-predicted, the
- 13 number of times the corresponding part was over-predicted, and the number of times the
- 14 corresponding part was correctly predicted.
- 1 59. (Currently Amended) The method of claim [[28]] 42, wherein computing the costs based
- 2 on the probabilities of over-predicting and under-predicting takes into account a cost of an extra
- 3 trip to a repair site and a cost of one of restocking and storing an unneeded part.
- 1 60. (Currently Amended) The method of claim [[28]] 42, wherein selecting the subset of
- 2 parts comprises selecting less than all the parts.
- 1 61. (Cancelled).